

FIG. 1 (PRIOR ART)

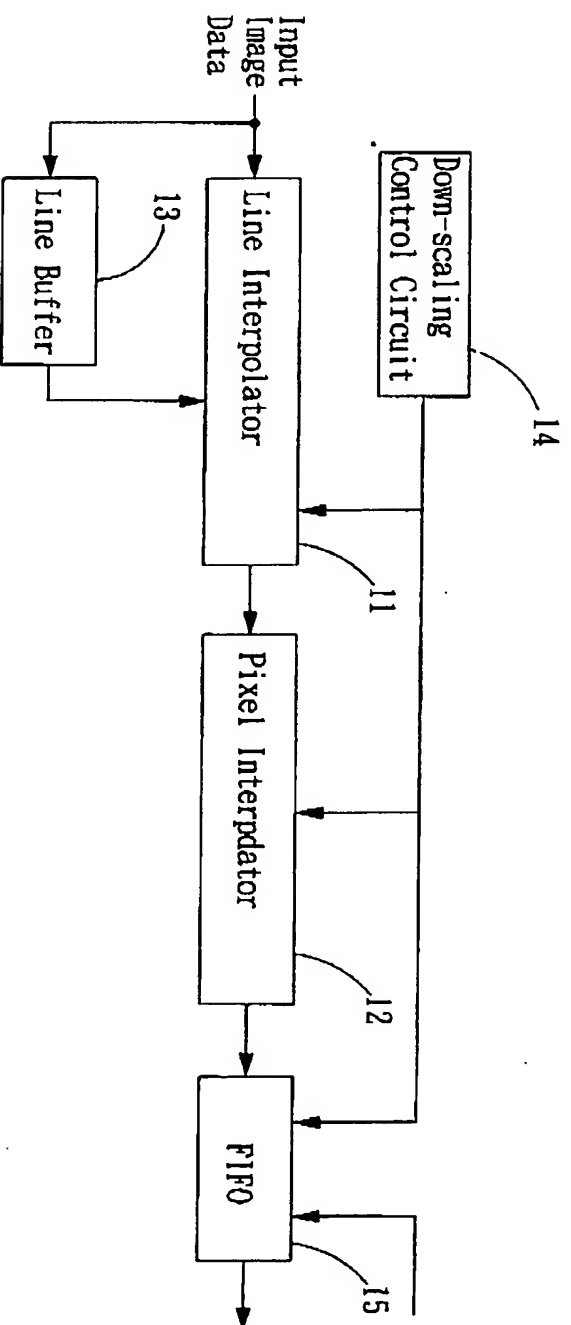


FIG. 2 (PRIOR ART)

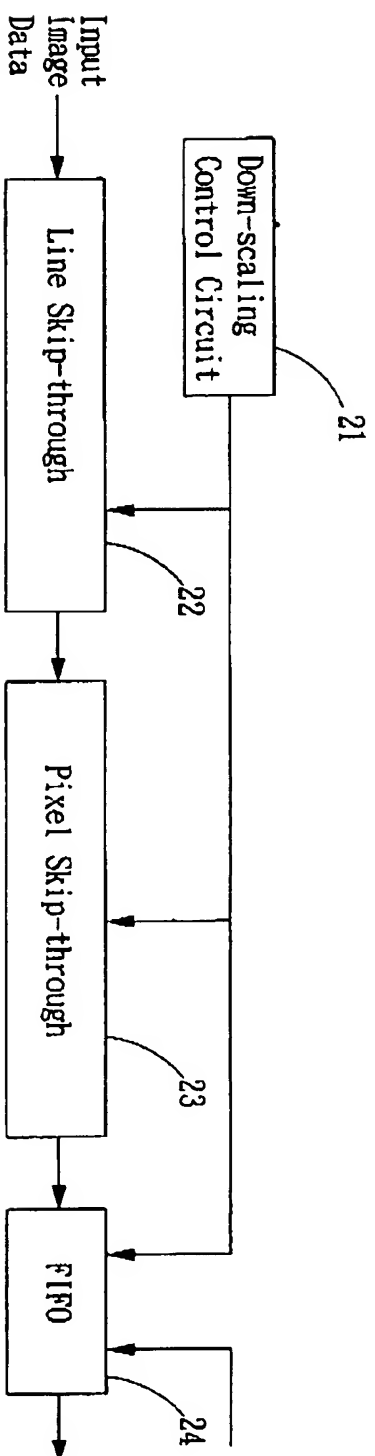


FIG. 3 (PRIOR ART)

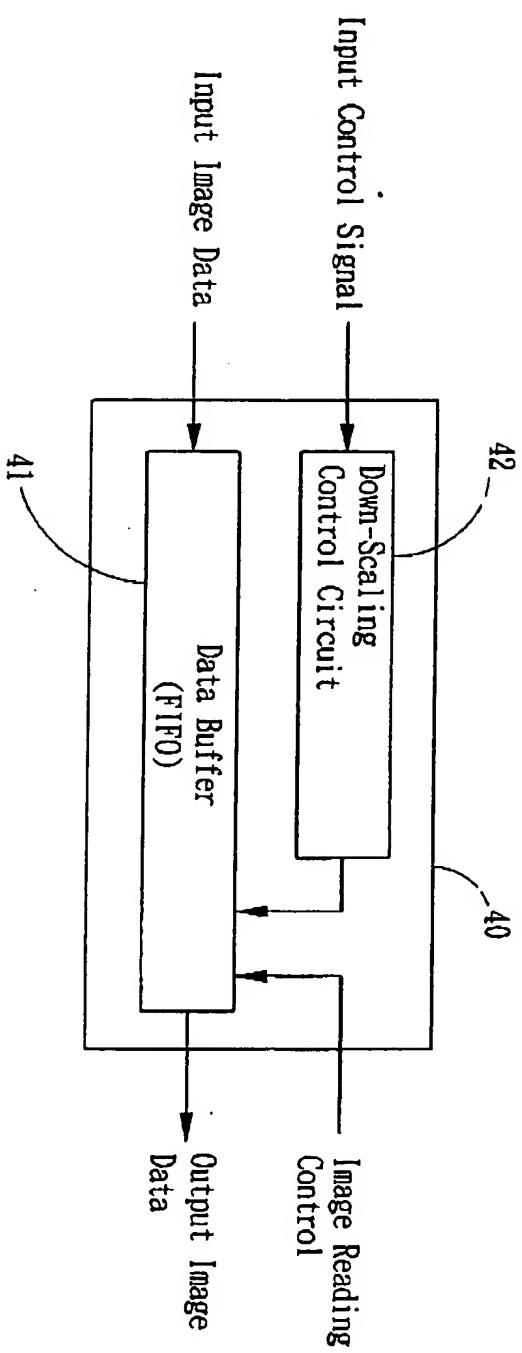


FIG. 4

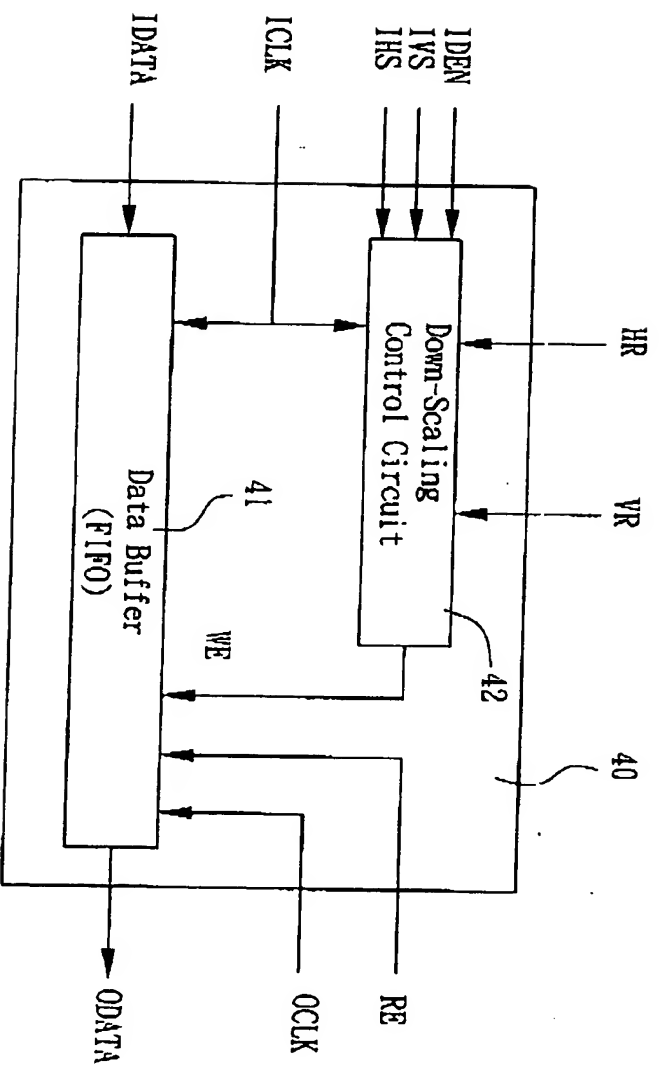


FIG. 5

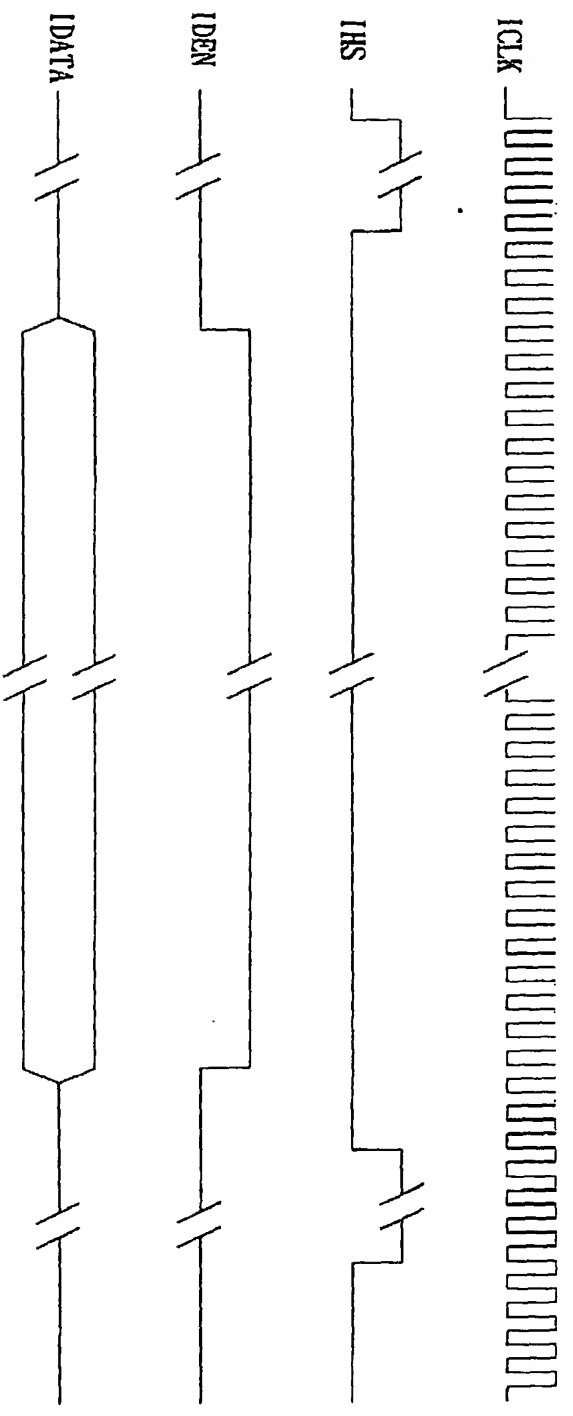


FIG. 6A

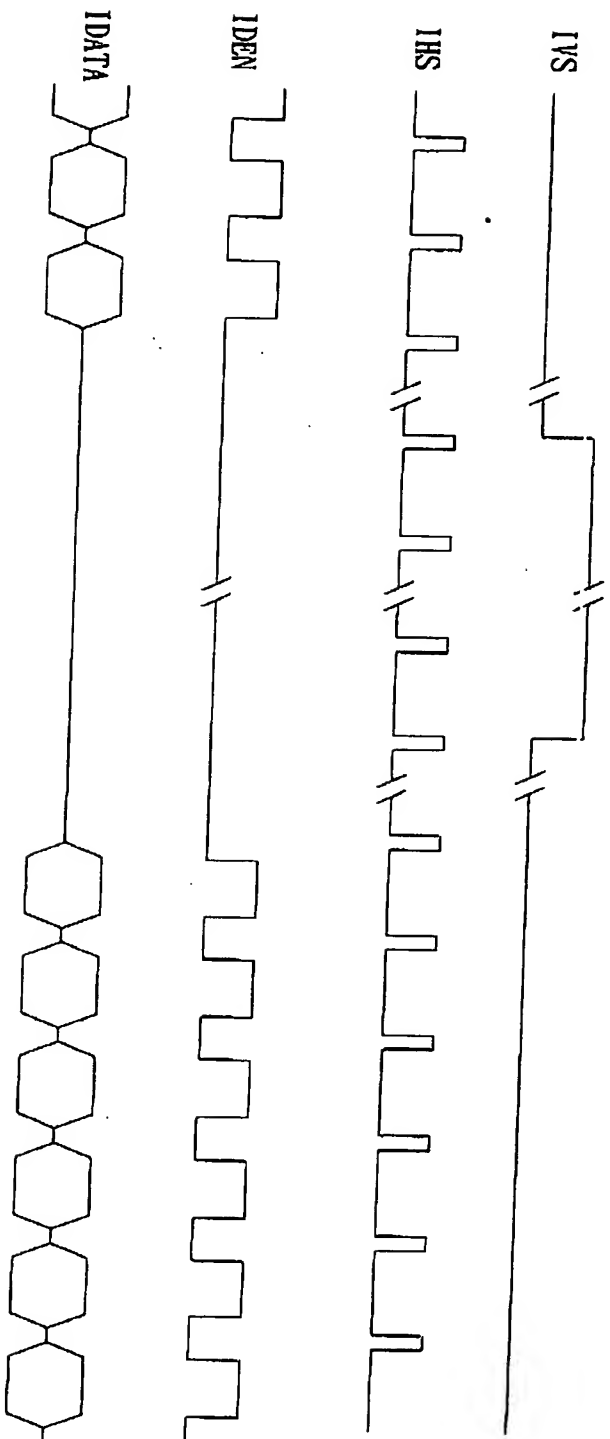


FIG. 6B

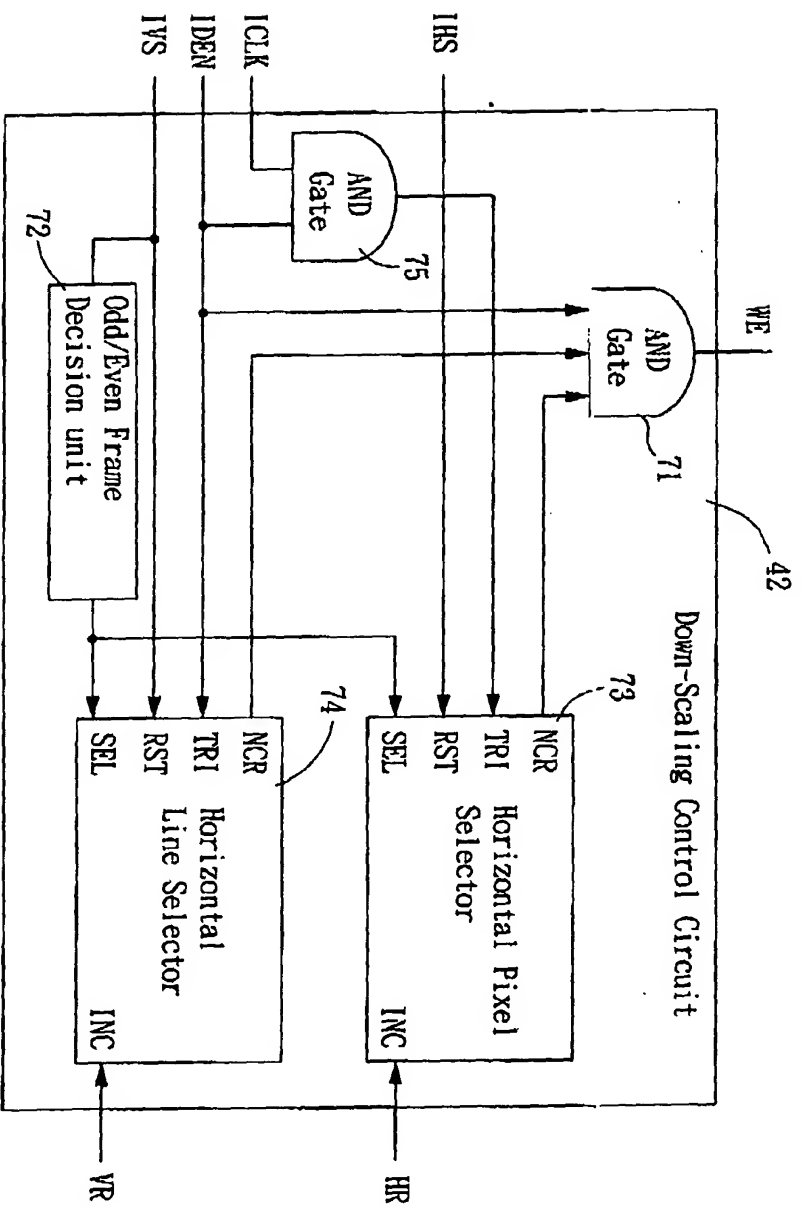


FIG. 7



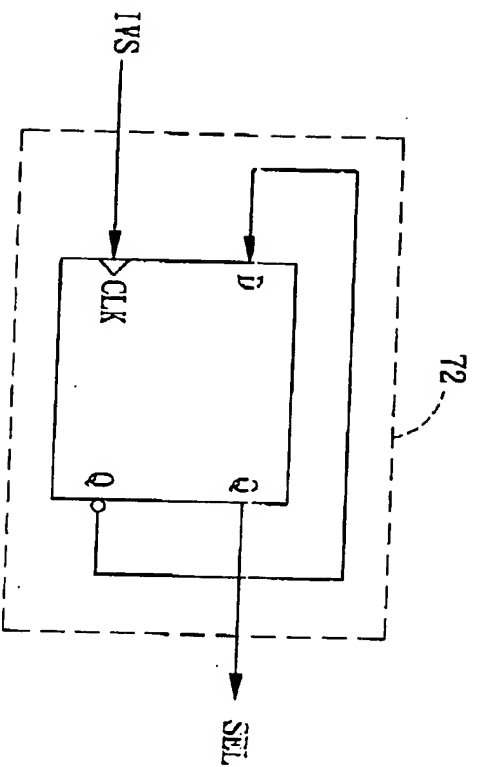


FIG. 8A

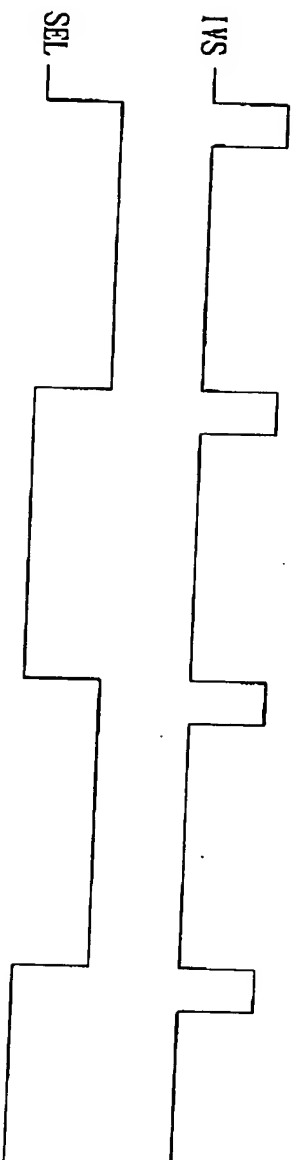


FIG. 8B

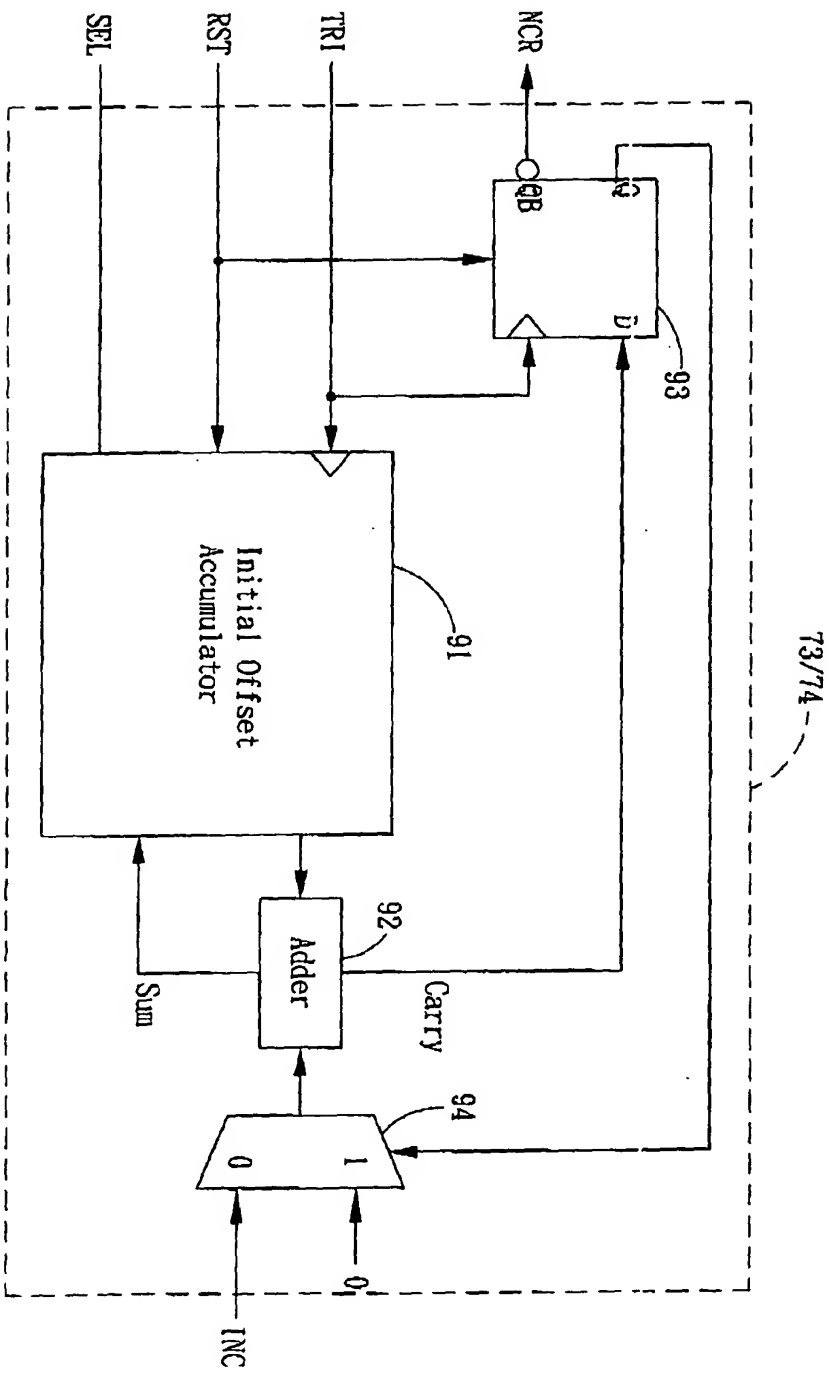


FIG. 9

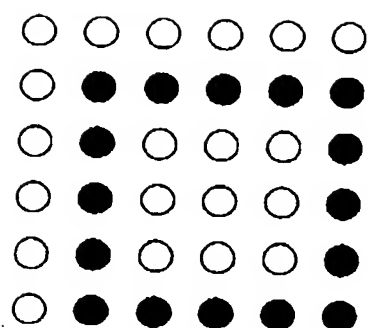


FIG. 10A

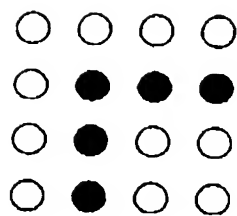


FIG. 10B1

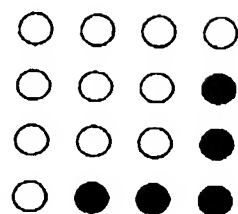


FIG. 10B2

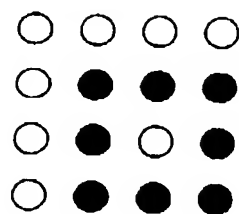


FIG. 10C

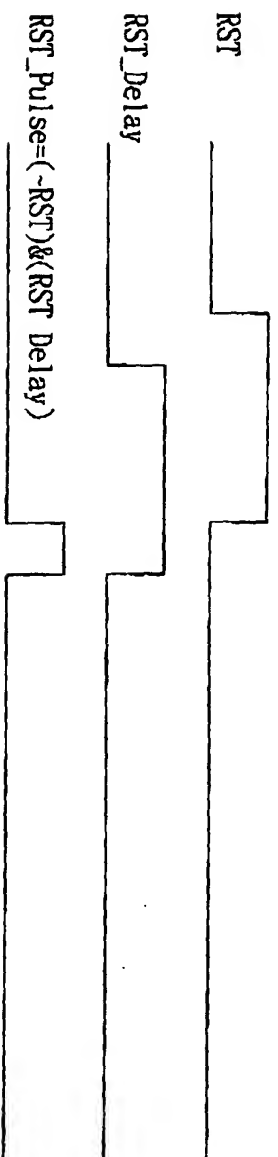


FIG. 11A

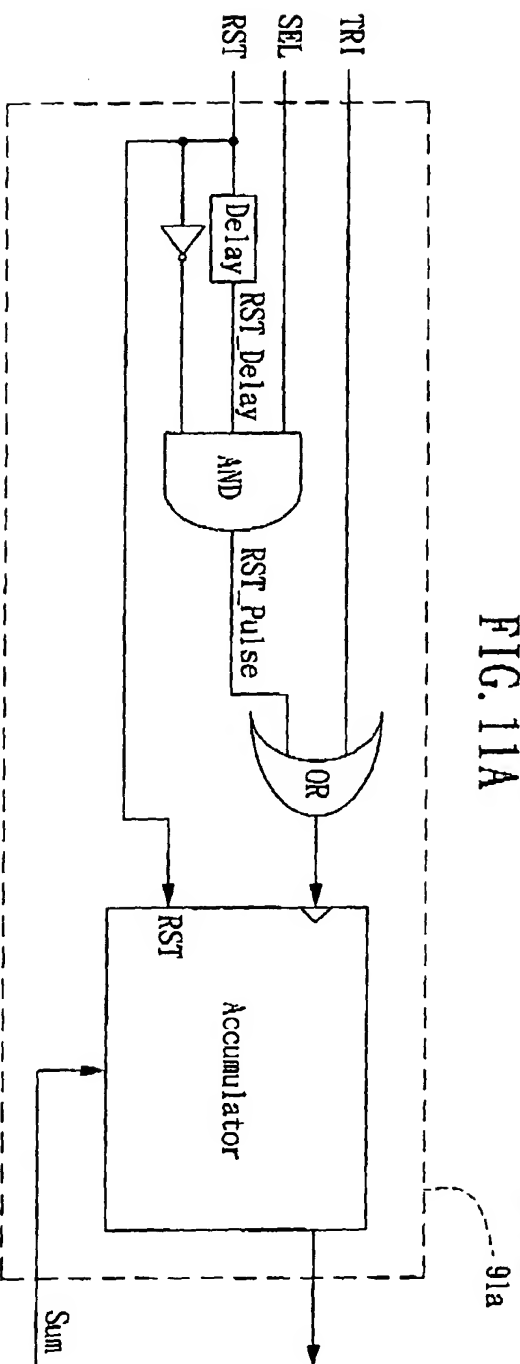


FIG. 11B

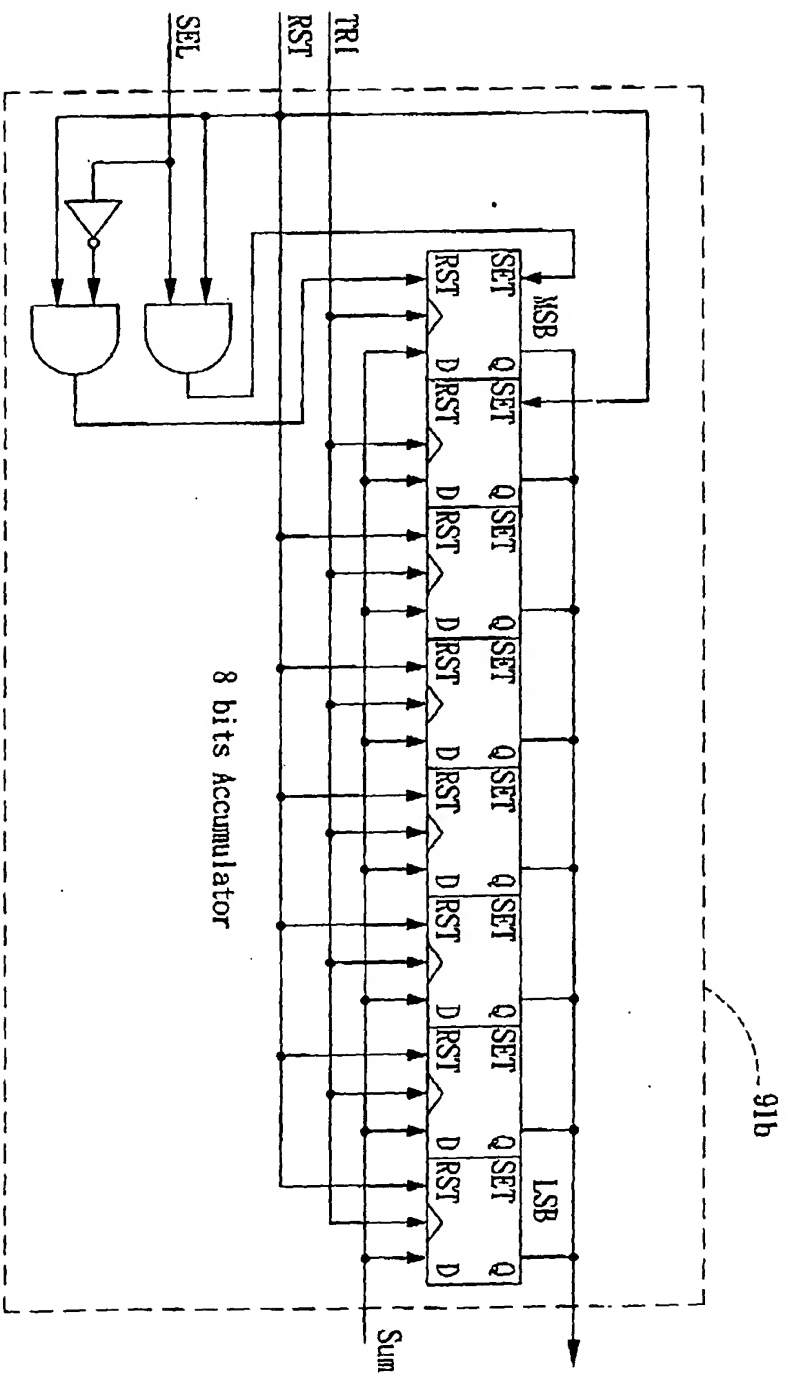


FIG. 12

Time-Domain Down-Scale using Truncation & Toggle Simulation							
Offset	0.25	<=the bias of offset value					
Input Size	1024	<=the input size to be Down-Scale					
Output Size	800	<=the output size to display					
Factor(1/0)	32/25	Conclusion: Bias 1/4 Offset 1/2 toggle, Round to 0.5					
Output	Offset0	Trunc0	Offset1	Trunc1	Effect	Interpolation	Round@0.5
0	1/4	0	3/4	0	0	0	0
1	1 1/2	1	2	2	1.5	1.23	1.5
2	2 4/5	2	3 1/3	3	2.5	2.56	2.5
3	4	4	4 3/5	4	4	3.84	4
4	5 3/8	5	5 7/8	5	5	5.12	5
5	6 2/3	6	7 1/7	7	6.5	6.4	6.5
6	8	7	8 3/7	8	7.5	7.68	7.5
7	9 1/5	9	9 5/7	9	9	8.96	9
8	10 1/2	10	11	10	10	10.24	10
9	11 7/9	11	12 1/4	12	11.5	11.52	11.5
10	13	13	13 5/9	13	13	12.8	13
11	14 1/3	14	14 5/6	14	14	14.08	14
12	15 3/5	15	16 1/9	16	15.5	15.36	15.5
13	16 8/9	16	17 2/5	17	16.5	16.64	16.5
14	18 1/6	18	18 2/3	18	18	17.92	18
15	19 4/9	19	20	19	19	19.2	19
16	20 3/4	20	21 2/9	21	20.5	20.48	20.5
17	22	22	22 1/2	22	22	21.76	22
18	23 2/7	23	23 4/5	23	23	23.04	23
19	24 4/7	24	25	25	24.5	24.32	24.5
20	25 6/7	25	26 1/3	26	25.5	25.6	25.5
21	27 1/8	27	27 5/8	27	27	26.83	27
22	28 2/5	28	29	28	28	28.16	28
23	29 2/3	29	30 1/5	30	29.5	29.44	29.5
24	31	30	31 1/2	31	30.5	30.72	30.5
25	32 1/4	32	32 3/4	32	32	32	32
Note: the last output of the period should be restricted within the last input of the period, and should not exceed the input of next period							

FIG. 13